

11. 1997 SEMINARS

Laboratory for Atmospheres Seminar Series

William Skamarock, NCAR, "Numerical Methods for Simulating Non- hydrostatic Dynamics," November 25.

Robert Samuelson, Planetary Systems Branch/GSFC, "Composition and Climatology of Titan's Atmosphere," November 12

Compton Tucker, Biospheric Sciences Branch/GSFC, "Trends in Higher Latitude Primary Production," October 28

Craig Bishop, Pennsylvania State Univ., "Ensemble Transformation and Adaptive Observations," September 23.

Arthur Hou, Data Assimilation Office/GSFC, "Rainfall Assimilation for Climate Research," May 21.

W. L. Smith, U. of Wisconsin-Madison, "Sensing the Earth-Atmosphere System: The Role of High Spectral Resolution Infrared Radiance Observations," May 13.

Isaac Held, Princeton University, "The Strength of the Hadley Cell and the Princeton University Partitioning of the Poleward Energy Transport Between the Tropical Ocean and Atmosphere," April 22.

William Frank, Pennsylvania State Univ., "Tropical Cyclone Formation," March 25.

Robert Atlas, Data Assimilation Office/GSFC, "Preliminary Evaluation NASA Scatterometer (NSCAT) Data and Its Application to Analysis and Forecasting," March 18.

Paul B. Hays, Univ. of Michigan, "Direct Detection Doppler Lidar," March 11.

Lawrence Coy, Atmospheric Chemistry & Dynamics Branch/GSFC, "An Analysis of the Stratospheric Subtropical Barrier Based on CLAES Nitrous Oxide & Assimilated Winds & Temperatures," February 11.

Richard Bevilacqua, Naval Research Lab., "Polar Ozone and Aerosol Measurement (POAM II) Observations of the Antarctic Ozone Hole: Polar Stratospheric Clouds and Ozone," January 28.

V. Mohan Karyampudi, Mesoscale Atmospheric Processes Branch/GSFC, "Lidar Observations of Saharan Dust Layer and Its Influence on Tropical Cyclogenesis," January 14.

Tropical Rainfall Measuring Mission Office

Rob Cifelli, CIRES, Boulder, "Wind profiler retrieved drop size distribution characteristics in precipitating systems near Darwin, N. T., Australia," April 9

Rob Cifelli, CIRES, Boulder, "Vertical Motion, diabatic heating and rainfall characteristics in N. Australian convective systems," July 9.

Rita D. Roberts, NCAR, Boulder "Detecting and forecasting cumulus cloud growth using WSR-88D radar and GOES-8 satellite data," September 25

Data Assimilation Office

Weiyu Yang, Florida State University, "Development of the adjoint model of the RAS parameterization package and error analysis on approximation adjoint calculations," November 7.

Eugenia Kalnay and Zhao-xia Pu, National Center for Environmental Prediction, "Use of quasi-inverse model in data assimilation and targeted observations," March 14.

William Collins, NCEP, "The Application of Complex Quality Control to Rawinsonde Heights and Temperatures at NCEP," April 4.

Steve Pawson, Freie Universitat of Berlin, "Climate-Middle Atmosphere Models: Successes and Problems of Simulations of the Present Climate," April 22.

Issac Held, GFDL, "The Strength of the Hadley Cell and the Partitioning of the Poleward Energy Transport Between the Tropical Ocean and Atmosphere," April 22.

Robert Black, Georgia Tech, "Potential Vorticity -Based Diagnoses of the Northern Hemisphere Wintertime Circulation Using the GEOS-1 Assimilated Data Set," April 25.

Mark Iredell, National Center for Environmental Prediction, "Prognostic Ozone in the NCEP Global Model," May 2.

David Alexander, USRA, Code 975, "The Impact of Rainfall Assimilation on Forecasts of the 1993 Superstorm," May 14.

Judah Cohn, MIT, "In Quest of the Role of Snow on Climate," May 15.

Darryn Waugh, Cooperative Research Center for Southern Hemisphere Meteorology "Timescales of the Stratospheric Circulation: Models and Measurements," May 19.

Tony Reale, NESDIS, "Plans for NOAA Operational TOVS/ATOVS Sounding Products: Year 2000," May 20.

Russ Treadon, Florida State, "Assimilation of Satellite Derived Precipitation Estimates in the NCEP GDAS," May 22.

Eric DeWeaver, University of Maryland, "Dynamics of Zonal-Mean Flow Assimilation and Implications for Winter Circulation Anomalies," May 23.

Michael Bosilovich, "Numerical Simulation of the 1993 Midwestern Flood," May 23.

Ron Errico, NCAR, "Sensitivity Analysis and the Determination of Singular Vectors for a Moist Model: An Update," June 2.

Kao-San Yeh, Purdue, "A Forward Semi-Lagrangian Scheme," June 9.

Ray Bates, University of Copenhagen, "A Dynamical Stabilizer in the Climate System: A Hypothesis Based on Observational Evidence," June 25.

Minghua Zhang, SUNY at Stony Brook, "Constrained Variational Analysis of Sounding Data: Impact of Using Observed Precipitation and Other Supplemental Measurements," July 18.

John Taylor, Centre for Resource and Environmental, Australian National University, "Investigating the Global Carbon Cycle Using a Lagrangian 3-D Atmospheric Tracer Transport Model," October 28.

Richard Swinbank, UKMO/USRA, "Stratospheric Assimilation at the UKMO," November 24.

Yanqui Zhu, Florida State University, "4-D Variational Data Assimilation and Parameter Estimation Numerical Experiments Using FSU Global Spectral Model and its Full-Physics Adjoint Model," November 24.

Mesoscale Atmospheric Processes Branch

Wilbert Skinner, University of Michigan, "Direct Detection Doppler Lidar - Some Activities at the University of Michigan," January 7.

Dave Stauffer, Penn State University, "Modeling Studies and Data Assimilation Strategies for the Tropical Pacific," January 8.

Cristina Flesia, Universite de Geneve, "Critical Analysis of the Incoherent Doppler Wind Lidar Methods for Spaceborne Applications," January 13.

Shuyi Chen, University of Washington, "Interactive Processes of Tropical Deep Convection and Large-Scale Environment: Mesoscale Model Simulations," January 15.

Scott Braun, NCAR, "On the Interaction of Cold Fronts with Coastal Orography," February 11.

David Baker, UCLA, "Atmospheric Convection on Venus: Penetration, Entrainment, and Gravity Wave Generation," February 13.

Kerry Emanuel, MIT, "Simulating Atmospheric Water Vapor Distributions," February 19.

Cyrille Flamant, Service d'Aeronomie du CNRS, "Study of the Dynamics of the Marine Atmospheric Boundary Layer Using an Airborne Backscatter Lidar During a Tramontane Event," February 20.

Chaing Chen, SSAI, "A Different View About the Evolution of Intraseasonal Oscillation (ISO): A Study to Understand Interactions Among Tropical Waves, Super Cloud Clusters (SCC), Cyclones, and Sea Surface Temperature (SST) Anomalies," February 25.

Mark Blackman, University of Reading, "Observations and Interpretations of Differential Phase Shift Measurements at S-band and Ka-band," March 4.

Merritt N. Deeter, University of Colorado, "A Novel Hybrid Eddington-Single Scattering Radiative Transfer Model," April 7.

Rob Cifelli, CIRES, "Ship-based Dual Doppler Analysis of an MCS During TOGA COARE," April 15.

Toby Carlson, Penn State University, "Soil Moisture: Everyone Talks About it but does Anyone Know What it is?," May 27.

Richard L. Slonaker, Scientific Technology, Inc., "Atmospheric Moisture Flux Across the Southern Ocean Via Satellite Analysis," June 3.

Shawn Miller, University of Maryland, "Multisensor Rain Rate Retrieval in TOGA-COARE," June 3.

William Cotton, Colorado State University, "Cloud Resolving Model Simulations," June 9-11.

R. Jeffrey Keeler, NCAR/ATD/Remote Sensing Facility, "NCAR's Remote Sensing Instrumentation - Radars and Lidars, and Applications," June 11.

Xin Lin, Colorado State University, "Multiscale Variability Associated with the Intraseasonal Oscillation (ISO) Over the Western Pacific Warm Pool," July 22.

P. S. Argall, University of Western Ontario, "Middle Atmosphere Lidar", July 29.

Eric G. Hoffman, SUNY/Albany, "Large-Amplitude Inertia-Gravity Wave Environments: Three Dimensional Structure and Mesoscale Evolution," August 27.

Lance F. Bosart, SUNY/Albany, "A Study of Cyclone Mesoscale Structure with Emphasis on a Large-Amplitude Inertia-Gravity Wave," August 27.

Stephen Jascourt, University of Wisconsin-Madison, "Mesoscale Warm-Core Vortex Formation in Simple Idealized Numerical Experiments," September 3.

Xubin Zeng, University of Arizona, "Surface Skin Temperature, Fluxes, and Precipitation Over Tropics," September 15.

Yoshio Kurihara, NOAA/GFDL, "Problems of Scale Interaction in Hurricane Dynamics," September 24.

Jeffrey Halverson, SSAI, "Rainfall Characteristics of an Ensemble of Convective Systems During TOGA COARE," December 10.

Climate and Radiation Branch

Zhanqing Li, Canada Center for Remote Sensing, "Progresses and Challenges in the Studies of Solar Radiation Budget and Cloud Absorption," January 15.

Sumant Nigam, Department of Meteorology, Univ. of Maryland, "Coupled Ocean-Atmosphere-Land Interactions in the Evolution of the Eastern Equatorial Pacific Annual Cycle," January 29.

Kenneth R. Sperber, PCMDI, Lawrence Livermore National Laboratory, "On the Maintenance and Initiation of the Intraseasonal Oscillation in the NCEP/NCAR Reanalysis and the GLA and UKMO AMIP Simulations," February 12.

Taikan Oki, Visiting Scientist, Climate and Radiation Branch, GSFC/NASA, "Rivers in Global Hydrological Cycle," February 26.

Francis Zwiers, Canadian Center for Climate Modelling & Analysis, "Analysis of Variability and Predictability in an Ensemble of AMIP Simulations," March 12.

Ping Chang, Department of Oceanography, Texas A & M University, "Dynamics and Predictability of Tropical Atlantic Sea Surface Temperature Variability," March 26.

Steve Ackerman, SSEC/CIMSS/AOS, "Inferring cloud properties from infrared window observations: Results from SUCCESS and WINCE," April 9.

Klaus M. Weickmann, CDC, NOAA, "Intraseasonal to Interannual Variations in IndoPacific Sea Surface Temperature," April 23.

Teruyuki Nakajima, Center for Climate System Research, University of Tokyo, "Remote sensing of cloud and aerosol microphysics significant for their radiative forcing," May 7.

Alexander Marshak, SSAI, Climate and Radiation Branch, GSFC/NASA, "How to include 3-D radiative effects in inhomogeneous clouds using only 1-D calculations and green function theory," May 21.

Joseph M. Ritter, University of Miami Physics Department, "Radiometric Measurements of the Solar Aureole," May 23.

Cuddapah Prabhakara, Climate and Radiation Branch, GSFC/NASA, "SSM/I Rainfall Estimation over Tropical Oceans: Area Average Rain Rate," June 4.

Robert Pincus, NRC, Climate and Radiation Branch, GSFC/NASA, "In situ Measurements of the Absorption of Solar Radiation in Stratiform Water Clouds," June 18.

Paul Dirmeyer, COLA, University of Maryland, College Park, "The Global Soil Wetness Project," September 17.

Mike Shlesinger, Office of Naval Research, DoD, "Long-Tailed Distributions in Physical Systems," September 30.

Weilang Li, Earth Environment Science Laboratory, Chinese Academy of Meteorological Sciences, "The Numerical Simulation of Ozone Variation over Tibetan Plateau," October 14.

Longxun Chen, Earth Environment Science Laboratory, Chinese Academy of Meteorological Sciences, "Features of Summer Monsoon Onset over South China Sea and its Possible Mechanisms," October 14.

Lou-Chuang Lee, Chief Scientist, National Space Program Office, "ROCSAT Program in Taiwan, R.O.C.," October 15.

Yoram Kaufman, NASA GSFC, Climate and Radiation Branch, "Earth Observing System - AM1 Platform: A New Way to Look on the Earth as one Living System," October 29.

Ning Zeng, Univ. of CA., Los Angeles, "Intermediate Modeling of the Tropical Atmos.-land-Ocean System," November 19.

Winston Chao, NASA GSFC, Climate and Radiation Branch, "The Origin of Monsoon Onset," December 3.

Judith A. Curry, University of Colorado, Boulder, "Surface Heat Budget of the Arctic Ocean," December 17.

Janusz Eluskiewicz, MIT, "Learning About Stratospheric Dynamics Through Radiative Transfer," January 27.

Guoyong Wen, Univ. of Chicago, "The Effects of Horizontally Extended Clouds on Backscattered Ultraviolet Sunlight," January 28.

Walt McKeown, Naval Research Lab, "Marine Dermatology: Sounding the Skin of Water," March 17.

Wilbur Chen, Climate Prediction Center, NCEP/NWS/NOAA, "Modification of Extratropical Climate Noise, Climate Predictability, and Deterministic Predictability by Tropical Anomalous Forcing," April 30.

Ngar-Cheung Lau, Geophysical Fluid Dynamics Laboratory/NOAA, Princeton University, "Satellite and Surface Observations of Cloud Patterns Associated with Synoptic Scale Systems," May 2.

Lazaros Oreopoulos, Atmospheric Environment Service, Cloud Physics, "Parameterizing the Impact of Sub-grid Variable Clouds on Solar Radiative Transfer in Large Scale Models," May 14.

John Augustine & Charles Long, NOAA/ARL & Univ. of Colorado, "High Quality Measurements from SURFRAD, NOAA's Surface Radiation Budget Network, and Applications to Climate and Weather Research," June 13.

Ebby Anyamba, GSC/NASA/GSFC, "A comparison of TOVS Ocean Skin and Surface Air Temperatures with Other Data Sets," June 25.

Sulochana Gadgil, Indian Institute of Science, "Monsoon and Precipitation in AMIP Runs," September 18.

Stephan Roux, NASA/GSFC, NRC, "Analysis of Multi Fractal Signals using "Wavelet Transform Modulus Maxima Method," November 13.

Chang-Hoi Ho, NASA/GSFC, Climate and Radiation Branch, "Physics & Dynamics Obtained from AMIP run Using the Climate Version of GOES GCM and Comparison to Observations," December 10.

Atmospheric Chemistry and Dynamics Branch

Kaoru Sato, Northwest Research Associates, Inc., "A Statistical Study of the Structure, Saturation and Sources of Inertio-Gravity Waves in the Lower Stratosphere Observed with the Mu Radar," August 24, 1997.

Melody Owens, Florida State University, "In-Situ Ammonia Detection Using a Phase Sensitive Detector," September 25, 1997.

Roger Atkinson, Cooperative Research Center for Southern Hemisphere Meteorology, "Realtime Analysis and Deterministic Prediction of the Global Total Ozone Distribution," March 18, 1997.

Roger Atkinson, Cooperative Research Center for Southern Hemisphere Meteorology, "On the Application of Semi-Lagrangian Mapping to Ozone Profile Data," March 18, 1997.

Alexander Vasilkov, Management Unit of Mathematical Models of the North Sea and the Scheldt Estuary, "Computations of UV Fluxes Withing the Oceans by Using the TOMS and Ocean Color Satellite," March 20, 1997.

Tim Richardson, Vital Technologies Corporation, "Radiometric Instruments," May 2, 1997.

Volker Wulfmeyer, Max Planck Institute, "The MPI Water Vapor DIAL: Results and Comparison with Raman Lidar," May 22, 1997.

John Burrows, University of Bremen, "New Results from GOME," August 4, 1997.

Darin Toohey, University of California-Irvine, "Do Cirrus Clouds Activate Inorganic Chlorine in the Lower Stratosphere," October 2, 1997.

Linnea Avallone, University of Colorado-Boulder, "In-Situ Observations of BrO in the Arctic Troposphere During ARCTOC 96'," October 3, 1997.

Joe She, State University of Colorado, "LIDAR Observed Mesopause: Thermal Structure and Change to External Perturbations," October 16, 1997.

Jason McPhate, Johns Hopkins Unviversity, "Rocket Experiments to Observed Carbon Monoxide in Hale-Bopp", November 20, 1997.

V. Ramanathan, University of California at San Diego and Scripps Institute of Oceanography, "Anomalous Solar Absorption and Aerosol Forcing: Missing Links in Climate and Chemistry," December 1, 1997.

Kimberly Strong, University of Toronto, "OSIRIS Instrument," December 4, 1997.

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The responsible NASA official is [Bob Theis](#).*